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**THE UNITED STATES OF AMERICA**

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

**UNITED STATES DEPARTMENT OF COMMERCE**

**United States Patent and Trademark Office**

**April 18, 2003**

**THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM  
THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK  
OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT  
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A  
FILING DATE UNDER 35 USC 111.**

**APPLICATION NUMBER: 60/373,251**

**FILING DATE: April 17, 2002**

**TEST AVAILABLE COPY**

**PRIORITY DOCUMENT**  
SUBMITTED OR TRANSMITTED IN  
COMPLIANCE WITH  
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**By Authority of the  
COMMISSIONER OF PATENTS AND TRADEMARKS**



**P. SWAIN**  
**Certifying Officer**



**PROVISIONAL APPLICATION FOR PATENT COVER SHEET**

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

Express Mail Label No. EL827840589US

**INVENTOR(S)**

|  |                        |   |
|--|------------------------|---|
| Given Name (first and middle [if any]) | Family Name or Surname | Residence<br>(City and either State or Foreign Country) |
| RAYMOND                                | KRASINSKI              | Suffern<br>New York                                     |

 Additional inventors are being named on the page 2 separately numbered sheets attached hereto**TITLE OF THE INVENTION (280 characters max)****METHOD FOR RESTRICTING THE VIEWING OF DIGITAL BROADCAST CONTENT BY ENCODING REGION AND TIME INFORMATION IN THE BROADCAST****CORRESPONDENCE ADDRESS**

Direct all correspondence to:

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|   |   |           |                |     |
|---|---|-----------|----------------|-----|
| <input checked="" type="checkbox"/> Firm or Individual Name | Philips Electronics North America Corporation |           |                |     |
| Address   | 580 White Plains Road                         |           |                |     |
| Address   |   |           |                |     |
| City  | Tarrytown                                     | State     | NY             | ZIP |
| Country   | US  | Telephone | (914) 333-9607 | Fax |

**ENCLOSED APPLICATION PARTS (check all that apply)** Specification Number of Pages
 CD(s), Number
 Drawing(s) Number of Sheets
 Other (specify)
 Application Data Sheet. See 37 CFR 1.76**METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)** Applicant claims small entity status. See 37 CFR 1.27. A check or money order is enclosed to cover the filing fees

FILING FEE AMOUNT (\$)

 The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:

160

 Payment by credit card. Form PTO-2038 is attached.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

 No. Yes, the name of the U.S. Government agency and the Government contract number are: \_\_\_\_\_.

Respectfully submitted,

SIGNATURE

Date

4/17/02

TYPED or PRINTED NAME

DICRAN HALAJIAN

REGISTRATION NO.

39,703

TELEPHONE 914 333-3607

(if appropriate)

Docket Number:

US020120P

**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

**RETURN COPY OF THE  
ID ABSTRACT TO: Jeanne Jordan  
FOR ADMIN USE ONLY**

*Gross*  
**703071**

EXPORT CONTROL ECO INITIALS  
NUMBER (ECCN)

FOR IP&S USE ONLY

**PHILIPS ELECTRONICS NORTH AMERICA CORPORATION**

**DISCLOSURE OF INVENTION**

**THIS DESCRIPTION SHOULD BE SUPPLEMENTED BY ATTACHING COPIES OF RELEVANT DOCUMENTS, SUCH AS  
PUBLISHED ARTICLES OR PATENTS, PRODUCT BROCHURES, ENGINEERING NOTEBOOK PAGES AND DRAWINGS.**

**DESCRIPTIVE TITLE OF THE INVENTION:** Method for Restricting the Viewing of Digital Broadcast  
Content by Encoding Region and Time Information in the Broadcast

**INVENTOR #1:** Raymond Krasinski Member of Research Staff Philips Research, Briarcliff  
Name (Print) Job Title Division / Location

E-Mail address Raymond.Krasinski@Philips.Com Manager's Name Helen Routh  
Home Address Reigate Place, Suffern NY 10901 Country of Citizenship USA

**INVENTOR #2:** Name (Print) Job Title Division / Location  
E-Mail address Manager's Name

Home Address Country of Citizenship

**INVENTOR #3:** Name (Print) Job Title Division / Location  
E-Mail address Manager's Name

Home Address Country of Citizenship

**1. PRIMARY CONTACT**

Who should IP&S contact for further technical information about the invention and information about its planned use or public disclosure?

Inventor Name: Raymond Krasinski

**2. PRESENT STAGE OF THE INVENTION**

Idea

Research

Development

Manufacture

**3. GOVERNMENT CONTRACT INVENTION**

Was the invention made under a government contract?  Yes  No

**4. PLEASE PROVIDE A TWO OR THREE SENTENCE SUMMARY OF YOUR INVENTION and include and underline KEY WORDS which might be useful in searching for relevant patents or publications:**

When digital content is broadcast, the date and time of the broadcast are encoded in the broadcast, but no information about where the broadcast originated is encoded. It may be desirable to encode the region and time zone in which the broadcast originated and provide a mechanism to restrict the viewing of the content in other regions or time zones. By encoding this region and time zone information within the broadcast, along with information about when the content can be viewed in other time zones and regions, viewing of this content can be controlled.

**5. PRESENT STATE OF THE ART**

Briefly describe the closest already-known technology that relates to the invention. This would include, for example, already existing products, methods or compositions which are known to you personally or through descriptions in publications.

Prerecorded DVD disks may be encoded with region information. These disks may only be viewed in the region for which they are encoded by DVD players. Currently, High Definition TV broadcasts in the US are encoded with the date and time of broadcast.

**6. ADVANCEMENT IN STATE OF THE ART**

Briefly describe the unique advancement achieved by the invention. This may be done, for example, by describing a problem with the prior art that is solved or specific objects that are achieved by the invention.

It is highly desirable for broadcasters to control when broadcast content is viewed. By adding time zone, region and playback rules to the broadcast this can be accomplished. Of course in the USA anyone who receives content broadcast in the same region and time zone where they are situated may view the content, regardless of restrictions as required by law.

(ADD LINES AS NECESSARY, IF COMPLETING ON COMPUTER, OR ATTACH ADDITIONAL PAGES)

7. - **WHAT IS THE BEST WAY YOU KNOW OF TO IMPLEMENT THE INVENTION?**  
Briefly describe the invention and how it achieves the advancement described in paragraph 7.  
**This invention can be implemented by adding information to data packets already embedded within a digital high definition broadcast. Alternatively, new packets could be added to the high definition digital broadcast stream that contain the region, time zone and usage rule information. Receivers of this content, such as televisions, could then be required to examine the broadcast for this information and obey the usage rules. The region of the receiver can be stored in the device before it is sold. The time zone where the device is located will be stored by the owner of the device or could be extracted from broadcast content periodically at a random time to prevent tampering by the end user.**

\*\*\*\*\***PLEASE NOTE: IF WE DECIDE TO FILE AN APPLICATION ON THIS INVENTION, THE ATTORNEY WRITING THE APPLICATION WILL NEED THIS INFORMATION FROM YOU IN AS MUCH DETAIL AS POSSIBLE IN ORDER TO COMPLETE THE APPLICATION.**

3. **DISCLOSURE OUTSIDE OF PHILIPS**

If the invention has been or will be disclosed publicly or to anyone other than a Philips' employee, describe to whom (person / company), date and where.

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**PUBLICATION**

Has a description of the invention been published or submitted for publication?  Yes  No  
If "yes", please list each occurrence:

Date

Publication/Submission

**PLEASE INDICATE THE PRODUCT OR SERVICE IN WHICH YOUR INVENTION MOST LIKELY WILL BE USED:**

This invention should be included in all digital broadcasts of content in the US and should be made a part of the standard to require compliance by all US broadcasters. In addition, all receivers of digital broadcast content must be required to look for and obey the viewing rules.

INVENTOR #1: \_\_\_\_\_

Signature

Date

INVENTOR #2: \_\_\_\_\_

Signature

Date

INVENTOR #3: \_\_\_\_\_

Signature

Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
In re Application of Atty. Docket  
RAYMOND KRASINSKI ET AL. US020120P

Serial No.

Filed: CONCURRENTLY

Title: METHOD FOR RESTRICTING THE VIEWING OF DIGITAL BROADCAST  
CONTRNT BY ENCODING REGION AND TIME INFORMATION IN THE BROADCAST

Commissioner for Patents  
Washington, D.C. 20231

APPOINTMENT OF ASSOCIATES

Sir:

The undersigned Attorney of Record hereby revokes all prior appointments (if any) of Associate Attorney(s) or Agent(s) in the above-captioned case and appoints:

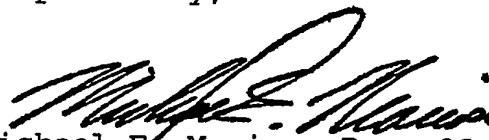
DICRAN HALAJIAN

(Registration No. 39,703)

c/o PHILIPS ELECTRONICS NORTH AMERICA CORPORATION, Corporate Intellectual Property, 580 White Plains Road, Tarrytown, New York 10591, his Associate Attorney(s)/Agent(s) with all the usual powers to prosecute the above-identified application and any division or continuation thereof, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

ALL CORRESPONDENCE CONCERNING THIS APPLICATION AND THE LETTERS PATENT WHEN GRANTED SHOULD BE ADDRESSED TO THE UNDERSIGNED ATTORNEY OF RECORD.

Respectfully,

  
Michael E. Marion, Reg. 32,266  
Attorney of Record

Dated at Tarrytown, New York  
on April 17, 2002.

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